

LESSON
3•1
General Patterns and Special Cases


1. You are describing a general number pattern for a special case when you write a rule for a “What’s My Rule?” table.



Write a rule for each table shown below.

| in | out |
|-----|-----|
| 8 | 13 |
| 11 | 16 |
| 20 | 25 |
| 105 | 110 |

| in | out |
|-----|-----|
| 12 | 4 |
| 21 | 7 |
| 60 | 20 |
| 300 | 100 |

Rule: _____

Rule: _____

2. You are writing special cases for a general number pattern when you complete a “What’s My Rule?” table.

Complete.

Rule: Add the opposite of the number.
 $(x + -x = 0)$

| in | out |
|-----|-----|
| 3 | 0 |
| 25 | |
| -7 | |
| -53 | |

Rule: Divide by the number.
 $(y \div y = 1)$

| in | out |
|---------------|-----|
| 8 | 1 |
| 9 | |
| $\frac{1}{4}$ | |
| 100 | |

Use the values from the table above to write special cases for the following general number patterns:

$x + -x = 0$.
 Special cases

Example: $3 + -3 = 0$

$y \div y = 1$.
 Special cases

Example: $8 \div 8 = 1$
